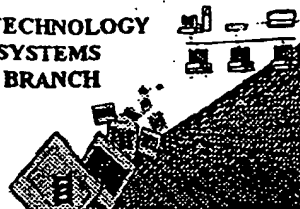


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/678,588
Source: EPW9
Date Processed by STIC: 5/26/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
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IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004

TIME: 15:38:44

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

3 <110> APPLICANT: Jingrui Wu
5 <120> TITLE OF INVENTION: Water-Deficit-Tolerant Transgenic Plants
7 <130> FILE REFERENCE: 38-15(52578)C
3--> 9 <140> CURRENT APPLICATION NUMBER: US/10/678,588
3--> 9 <141> CURRENT FILING DATE: 2003-10-02
9 <160> NUMBER OF SEQ ID NOS: 10
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 2480
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial
18 <220> FEATURE:
19 <223> OTHER INFORMATION: transcriptional unit comprising promoter, coding sequence for
20 transcription factor of SEQ ID NO:2 and terminator elements
22 <400> SEQUENCE: 1
23 aggatattaa agtatgtatt catcattaat ataatacagt tattccaata tgtactacga 60
25 ttccaatgt ctttattgtc gccgatgtg atcgccgtca caaaataatc cccgggtgact 120
27 ttcttttaac ccaggatgaa ataatatgtt attataattt ttgcgatttg gtccgttata 180
29 ggaattgaag tgtgcttgag ctccgtcgcc accactccca ttccataatt ttacatgtat 240
31 ttgaaaaata aaaattttat gtattcaatt taaacacgta tacttgtaaa gaatgatata 300
33 ttgaaagaaa tatagttaa atatttattg ataaaaaac aagtcaggta ttatagtcca 360
35 agcaaaaaca taaatttatt gatgcaagtt taaattcaga aatatttcaa taactgatta 420
37 tatcagctgg tacattgccg tagatgaaag actgagtgcg atattatgtg taatacataa 480
39 attgatgata tagctagaac tagtggatcc cccgggccct gcaggctcga gctagtttga 540
41 gatatecccg ttatggtact ggggttgc ataaaccatt ccttggttgt atgctccctg 600
43 ttggcccatc ccttggtcag ctgagctact tgcctccaca tgaccaaggg catccttttt 660
45 aattgagcca tcgctagatt ttgcagttaa cttgctatca cctccatct ctctgtactt 720
47 ctgcaggtag accttgaggg gttcaatgta gtcttcaaac cccagcgtgg ccatggccca 780
49 cagcagatcg tcgccattga tggctctccg cttctccctc tggcacttgt cactcgttcc 840
51 gctagtgatg aaggagatga actcggagac gcactcctgc acggtctcct tagcgtcctt 900
53 ggcgatcttc ccgttagccg ggatggtctt cccgttagcc gggatggcct tcttcatgat 960
55 gcgactgatg ttggcgatgg gcaggaaact gtccctgctc ctgacgctgc caccgcctcc 1020
57 gcctccctcg gggctcccg cctcgtggt cccgcgcgcg ccgccagggc tcgccggagc 1080
59 ttccgccatg gtctacctac aaaaagctc cgcacgaggc tgcatttgtc acaaatcatg 1140
61 aaaagaaaaa ctaccgatga acaatgctga gggattcaaa ttctaccac aaaaagaaga 1200
63 aagaaagatc tagcacatct aagcctgacg aagcagcaga aatatataaa aatataaacc 1260
65 atagtgcctt ttccctctc tctgatctt gtttagcatg gcggaaattt taaaccccc 1320
67 atcatctccc ccaacaacgg cggatcgag atctacatcc gagagcccca ttccccgcga 1380
69 gatccgggcc ggatccacgc cggcgagagc cccagccgcg agatcccgcc cctcccgccg 1440
71 accgatctgg gcgcgcacga agccgcctct cgcaccccca aactaccaag gccaaagatc 1500
73 gagaccgaga cggaaaaaaa aaacggagaa agaaagagga gaggggaggg gtggttaccg 1560
75 gcggcgccgg agggggaggg gggaggagct cgtcgtccgg cagcgagggg ggaggagggt 1620
77 gtggtggtgg tgggtggtagg gttgggggga tgggaggaga ggggggggta tgtatatagt 1680

Does Not Comply
Corrected Diskette Needed

(pg. 5-9)

60/415,758
425,157
463,78

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004

TIME: 15:38:44

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

```

79 ggcgatgggg ggcgtttctt tgggaagcga gggagggccg gcctcgtcgc tggctcgca 1740
81 tcctcctcgc gtttcggcc cccacgaccc ggacccacct gctgtttttt cttttcttt 1800
83 tttttcttc ttttttttt tttggctgcg agacgtgcgg tgcgtgcgga caactcacgg 1860
85 tgatagtggg ggggtgtgga gactattgtc cagttggctg gactggggtg ggttgggtt 1920
87 ggttgggtt ggcgtggcct gctatggatc gtggatagca ctttgggctt taggacttta 1980
89 ggggttgttt ttgtaaatgt tttgagtcta agtttatctt ttatttttac tagaaaaaat 2040
91 acccatgcgc tgcaacgggg gaaagctatt ttaatcttat tattgttcat tgtgagaatt 2100
93 cgcctgaata tatattttt tcaaaaatta tgtcaaatta gcatagggt ttttttaaag 2160
95 atattctta tacaaatccc tctgtattta caaaagcaaa cgaacttaaa acccgactca 2220
97 aatacagata tgcatttcca aaagcgaata aacttaaaaa ccaattcata caaaaatgac 2280
99 gtatcaaat accgacaaaa acatcctcaa tttttataat agtagaaaag agtaaatctc 2340
101 actttgggcc accttttatt accgatattt tactttatac caccttttaa ctgatgttt 2400
103 cacttttgac caggtaatct tacctttgtt ttattttgga ctatcccgac tctcttctca 2460
105 agcatatgaa tgacctcgag 2480

```

108 <210> SEQ ID NO: 2

109 <211> LENGTH: 185

110 <212> TYPE: PRT

111 <213> ORGANISM: Zea mays

113 <400> SEQUENCE: 2

```

115 Met Ala Glu Ala Pro Ala Ser Pro Gly Gly Gly Gly Gly Ser His Glu
116 1 5 10 15
119 Ser Gly Ser Pro Arg Gly Gly Gly Gly Gly Gly Ser Val Arg Glu Gln
120 20 25 30
123 Asp Arg Phe Leu Pro Ile Ala Asn Ile Ser Arg Ile Met Lys Lys Ala
124 35 40 45
127 Ile Pro Ala Asn Gly Lys Thr Ile Pro Ala Asn Gly Lys Ile Ala Lys
128 50 55 60
131 Asp Ala Lys Glu Thr Val Gln Glu Cys Val Ser Glu Phe Ile Ser Phe
132 65 70 75 80
135 Ile Thr Ser Glu Ala Ser Asp Lys Cys Gln Arg Glu Lys Arg Lys Thr
136 85 90 95
139 Ile Asn Gly Asp Asp Leu Leu Trp Ala Met Ala Thr Leu Gly Phe Glu
140 100 105 110
143 Asp Tyr Ile Glu Pro Leu Lys Val Tyr Leu Gln Lys Tyr Arg Glu Met
144 115 120 125
147 Glu Gly Asp Ser Lys Leu Thr Ala Lys Ser Ser Asp Gly Ser Ile Lys
148 130 135 140
151 Lys Asp Ala Leu Gly His Val Gly Ala Ser Ser Ser Ala Ala Gln Gly
152 145 150 155 160
155 Met Gly Gln Gln Gly Ala Tyr Asn Gln Gly Met Gly Tyr Met Gln Pro
156 165 170 175
159 Gln Tyr His Asn Gly Asp Ile Ser Asn
160 180 185

```

163 <210> SEQ ID NO: 3

164 <211> LENGTH: 178

165 <212> TYPE: PRT

166 <213> ORGANISM: Zea mays

168 <400> SEQUENCE: 3

170 Met Ala Glu Ala Pro Ala Ser Pro Gly Gly Gly Gly Gly Ser His Glu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004

TIME: 15:38:44

Input Set : D:\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

```

358 Ala Gly Gly Gly Val Ser Gly Glu Glu Met Pro Ser Trp
359      130              135              140
362 <210> SEQ ID NO: 8
363 <211> LENGTH: 100
364 <212> TYPE: PRT
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: protein consensus sequence
371 <220> FEATURE:
372 <221> NAME/KEY: MISC_FEATURE
373 <223> OTHER INFORMATION: Xaa can be Ala or Pro
375 <220> FEATURE:
376 <221> NAME/KEY: MISC_FEATURE
377 <223> OTHER INFORMATION: Xaa can be Thr or none
379 <220> FEATURE:
380 <221> NAME/KEY: MISC_FEATURE
381 <223> OTHER INFORMATION: Xaa can be Ile or none
383 <220> FEATURE:
384 <221> NAME/KEY: MISC_FEATURE
385 <223> OTHER INFORMATION: Xaa can be Pro or none
387 <220> FEATURE:
388 <221> NAME/KEY: MISC_FEATURE
389 <223> OTHER INFORMATION: Xaa can be Ala or none
391 <220> FEATURE:
392 <221> NAME/KEY: MISC_FEATURE
393 <223> OTHER INFORMATION: Xaa can be Asn or none
395 <220> FEATURE:
396 <221> NAME/KEY: MISC_FEATURE
397 <223> OTHER INFORMATION: Xaa can be Gly or none
399 <220> FEATURE:
400 <221> NAME/KEY: MISC_FEATURE
401 <223> OTHER INFORMATION: Xaa can be Lys or none
403 <220> FEATURE:
404 <221> NAME/KEY: MISC_FEATURE
405 <223> OTHER INFORMATION: Xaa can be Glu or Asp
407 <220> FEATURE:
408 <221> NAME/KEY: MISC_FEATURE
409 <223> OTHER INFORMATION: Xaa can be Val or Met
411 <220> FEATURE:
412 <221> NAME/KEY: MISC_FEATURE
413 <223> OTHER INFORMATION: Xaa can be Asp or Glu
415 <220> FEATURE:
416 <221> NAME/KEY: MISC_FEATURE
417 <223> OTHER INFORMATION: Xaa can be Arg or Lys
419 <220> FEATURE:
420 <221> NAME/KEY: MISC_FEATURE
421 <223> OTHER INFORMATION: Xaa can be Gln or Ala
423 <220> FEATURE:
424 <221> NAME/KEY: MISC_FEATURE

```

✓ pls insert
 Numeric
 identifier
 <221> and
 state the
 locations
 for each
 of the Xaa
 locations.
 pls see
 error
 explanation
 on pg. 7

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004
TIME: 15:38:45

Input Set : D:\52578C.ST25.txt
Output Set: N:\CRF4\05262004\J678588.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:8; Xaa Pos. 22,26,27,28,29,30,31,38,40,57,61,93,94,98
#:9; Xaa Pos. 29
#:10; Xaa Pos. 2,3,4,6

Valid <213> Response:

of "Artificial" only as "<213> Organism" response is incomplete,
1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

#:1,8,9,10

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004

TIME: 15:38:45

Input Set : DF\52578C.ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

eq#:8; Xaa Pos. 22,26,27,28,29,30,31,38,40,57,61,93,94,98

eq#:9; Xaa Pos. 29

eq#:10; Xaa Pos. 2,3,4,6

<210> SEQ ID NO 9
 <211> LENGTH: 55
 <212> TYPE: PRT
 <213> ORGANISM: Artificial
 <220> FEATURE:
 <223> OTHER INFORMATION: consensus protein sequence
 <220> FEATURE:
 <221> NAME/KEY: MISC FEATURE
 <223> OTHER INFORMATION: Xaa can be Gln or Glu
 <220> FEATURE:
 <221> NAME/KEY: MISC FEATURE
 <222> LOCATION: (29)..()
 <223> OTHER INFORMATION: Xaa can be Gln or Glu
 <400> SEQUENCE: 9
 Asp Ser Lys Leu Thr Ala Lys Ser Ser Asp Gly Ser Ile Lys Lys Asp
 1 5 10 15
 Ala Leu Gly His Val Gly Ala Ser Ser Ser Ala Ala Xaa Gly Met Gly
 20 25 30
 Gln Gln Gly Ala Tyr Asn Gln Gly Met Gly Tyr Met Gln Pro Gln Tyr
 35 40 45
 His Asn Gly Asp Ile Ser Asn
 50 55

delete

<210> SEQ ID NO 10
 <211> LENGTH: 8
 <212> TYPE: PRT
 <213> ORGANISM: Artificial
 <220> FEATURE:
 <223> OTHER INFORMATION: consensus protein sequence
 <220> FEATURE:
 <221> NAME/KEY: MISC FEATURE
 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 <220> FEATURE:
 <221> NAME/KEY: MISC FEATURE
 <222> LOCATION: (2)..(4)
 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 <400> SEQUENCE: 10
 Met Xaa Xaa Xaa Pro Xaa Ser Pro
 1 5

delete

What about location 6?

pls explain

pls see
 erron explanation
 on pg. 7

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/678,588

DATE: 05/26/2004

TIME: 15:38:45

Input Set: D:\52578C\ST25.txt

Output Set: N:\CRF4\05262004\J678588.raw

M:270 C: Current Application Number differs, Replaced Current Application No
M:271 C: Current Filing Date differs, Replaced Current Filing Date
M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:48
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:80
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:96
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:16
M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

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